

# Cytometer Performance Report

**Cytometer:** FACSCantoII  
**Cytometer Name:** FACSCantoII  
**Serial Number:** V96300958  
**Input Device:** Carousel  
**Setup Bead Position:** 1  
**Cytometer Configuration:** Canto II Config 3-laser, 8-color (4-2-2)

**User:** Administrator  
**Institution:** N/A  
**Software:** BD FACSDiva 8.0  
**Date:** 03/06/2017 09:24 AM  
**Cytometer Baseline:** 01/04/2017 03:58 PM  
**P/F:** Pass

## Setup Beads

**Bead Product:** CST Setup Beads **Part #:** 910858  
**Lot ID:** 82950 **Expiration Date:** 03/31/2016 (Expired)  
**Bead Lot Information:** Available

## Detector Settings

| Laser  | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|--------|----------|-----------|--------------|---------------------|---------------------------|-------------------------|-------------------------|----------------------|
| Blue   | FSC      | FSC       | 125000       | 123239              | -2                        | 3.07                    | 123531                  | 3.05                 |
| Blue   | F        | SSC       | 125000       | 122046              | -3                        | 3.85                    | 122966                  | 3.88                 |
| Blue   | E        | FITC      | 20501        | 19703               | -4                        | 2.87                    | 475                     | 23.88                |
| Blue   | D        | PE        | 34373        | 33588               | -3                        | 1.91                    | 668                     | 18.25                |
| Blue   | B        | PE-Cy5    | 59337        | 58848               | -1                        | 4.94                    | 1167                    | 30.28                |
| Blue   | A        | PE-Cy7    | 48989        | 48461               | -2                        | 7.43                    | 632                     | 52.47                |
| Red    | C        | APC       | 60194        | 60198               | 0                         | 3.15                    | 1436                    | 18.07                |
| Red    | A        | APC-Cy7   | 52685        | 51961               | -2                        | 4.25                    | 805                     | 19.74                |
| Violet | B        | DAPI      | 11362        | 10895               | -5                        | 2.85                    | 752                     | 12.94                |
| Violet | A        | AmCyan    | 47125        | 45513               | -4                        | 2.79                    | 1432                    | 10.63                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-----------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC       | 16761                   | 16.89                | 584  | -6     | N/A    | N/A  | Pass |
| Blue   | F        | SSC       | 60547                   | 3.90                 | 419  | -2     | N/A    | N/A  | Pass |
| Blue   | E        | FITC      | 88                      | 89.93                | 472  | -2     | 0.0162 | 836  | Pass |
| Blue   | D        | PE        | 168                     | 54.49                | 513  | -1     | 0.1216 | 301  | Pass |
| Blue   | B        | PE-Cy5    | 239                     | 79.49                | 679  | 0      | 0.0050 | 299  | Pass |
| Blue   | A        | PE-Cy7    | 122                     | 148.26               | 725  | 1      | 0.0079 | 77   | Pass |
| Red    | C        | APC       | 405                     | 34.88                | 723  | 2      | 0.0143 | 91   | Pass |
| Red    | A        | APC-Cy7   | 194                     | 47.30                | 571  | 1      | 0.0027 | 1619 | Pass |
| Violet | B        | DAPI      | 99                      | 73.24                | 461  | 2      | 0.0427 | 3277 | Pass |
| Violet | A        | AmCyan    | 176                     | 56.10                | 517  | 3      | 0.0205 | 5321 | Pass |

## Specifications

**PMTV Delta from baseline:** 50 (BD)  
**Violet Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Blue Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Red Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)

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## Laser Settings

| Laser  | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|--------|------------|------------------|--------------|-------------------------|------------------------|---------------------------------|---------------------|
| Violet | 59.80      | 47.71 - 71.57    | N/A          | N/A                     | -29.84                 | -29.32                          | 1.19                |
| Blue   | 20.25      | 16.21 - 24.31    | 1.41         | 1.14 - 1.70             | 0.00                   | 0.00                            | 1.44                |
| Red    | 16.91      | 12.75 - 19.13    | N/A          | N/A                     | 30.10                  | 30.67                           | 1.19                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.90

## Threshold

Threshold (FSC): 9503

## Fluidics

FACSFlow Pressure: 4.50  
Spec.: 4.40 - 4.60  
Sample Pressure: 4.30

Comments